



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**1200 Pennsylvania Avenue, N.W.**  
**Washington, DC 20460**

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**Data Matrix**

<b>Date:</b> November 23, 2020	<b>EPA Reg. No./File Symbol:</b> 91386-1	<b>Page 1 of 6</b>
<b>Applicant's/Registrant's Name and Address:</b> Industrie De Nora S.p.A., Via Bistolfi, 35, 20134 Milan, Italy	<b>Product Name:</b> Salt Cartridge for Giselle®	

**Ingredients:** Sodium Chloride (99.86%)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Notes
<b>SERIES 830: PRODUCT PROPERTIES TEST GUIDELINES (GROUP A)</b>					
830.1550	Product Identity and Composition	49573301	Industrie De Nora	OWN	
830.1600	Description of Materials Used to Produce the Produce	49573301	Industrie De Nora	OWN	
830.1620	Description of Production Process	49573301	Industrie De Nora	OWN	
830.1650	Description of Formulation Process	49573301	Industrie De Nora	OWN	
830.1670	Discussion of Formation of Impurities	49573301	Industrie De Nora	OWN	
830.1700	Preliminary analysis	49573302 49573303 49573304 49573305	Industrie De Nora	OWN	
830.1750	Certified Limits	49573301	Industrie De Nora	OWN	
830.1800	Enforcement Analytical Method	49573301 49693201	Industrie De Nora	OWN	
<b>SERIES 830: PRODUCT PROPERTIES TEST GUIDELINES (GROUP B)</b>					
830.6302	Color	N/A		PL	Footnote 1
830.6303	Physical State	N/A		PL	Footnote 1
830.6304	Odor	N/A		PL	Footnote 1
830.6313	Stability to normal and elevated temperatures, metals and metal ions	N/A		PL	Footnote 1
830.6314	Oxidation/reduction chemical incompatibility	N/A		PL	Footnote 1
830.6315	Flammability	N/A		PL	Footnote 1
830.6316	Explosibility	N/A		PL	Footnote 1

<b>Signature:</b> 	<b>Name and Title:</b> Carrie Daniels, Authorized Representative for Industrie De Nora S.p.A.	<b>Date:</b> November 23, 2020
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**Ingredients:** Sodium Chloride (99.86%)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Notes
830.6317	Storage Stability	49573303 49573304 49573305	Industrie De Nora	OWN	
830.6319	Miscibility	N/A		PL	Footnote 1
830.6320	Corrosion characteristics	N/A		PL	Footnote 1
830.6321	Dielectric breakdown voltage	N/A		PL	Footnote 1
830.7000	pH	N/A		PL	Footnote 1
830.7050	UV/visible absorption	N/A		PL	Footnote 1
830.7100	Viscosity	N/A		PL	Footnote 1
830.7200	Melting point/melting range	N/A		PL	Footnote 1
830.7220	Boiling point/boiling range	N/A		PL	Footnote 1
830.7300	Density/relative density/bulk density	N/A		PL	Footnote 1
830.7370	Dissociation constants in water	N/A		PL	Footnote 1
830.7520	Particle size, fiber length, and diameter distribution	N/A		PL	Footnote 1
830.7550 830.7560 830.7570	Partition coefficient (n-octanol/water)	N/A		PL	Footnote 1
830.7840 830.7860	Water solubility	N/A		PL	Footnote 1
830.7950	Vapor pressure	N/A		PL	Footnote 1
<b>SERIES 810: PRODUCT PERFORMANCE TEST GUIDELINES</b>					
810.2100	Evaluation of In Vitro Quantitative Sporidical Efficacy against Clostridium difficile on Giselle and Soleva Solutions	49573309	Industrie De Nora	OWN	

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<b>Guideline Reference Number</b>	<b>Guideline Study Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
810.2200	Evaluation of Disinfectant Efficacy for Broad-Spectrum and Hospital or Healthcare Spectrum on Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573310	Industrie De Nora	OWN	
810.2200	Evaluation of In Vitro Quantitative Virucidal Efficacy Against Human Immunodeficiency Virus (HIV-1) on Giselle and Soleva Solutions	49573311	Industrie De Nora	OWN	
810.2200	Evaluation of Fungicidal Efficacy Against Trychopyton mentagropytes on Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573312	Industrie De Nora	OWN	
810.2200	Evaluation of Disinfectant Efficacy for Broad-Spectrum and Hospital or Healthcare Spectrum on Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573313	Industrie De Nora	OWN	
810.2200	Evaluation of Fungicidal Efficacy Against Trychopyton mentagropytes on Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573314	Industrie De Nora	OWN	
810.2200	Evaluation of In Vitro Quantitative Virucidal Efficacy Against Poliovirus on Giselle and Soleva Solutions	49573315	Industrie De Nora	OWN	
810.2200	Evaluation of In Vitro Quantitative Virucidal Efficacy Against Feline Calicivirus on Giselle and Soleva Solutions	49573316	Industrie De Nora	OWN	
810.2200	Evaluation of In Vitro Quantitative Virucidal Efficacy Against Bovine Viral Diarrhea Virus on Giselle and Soleva Solutions	49573317	Industrie De Nora	OWN	

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**Ingredients:** Sodium Chloride (99.86%)

<b>Guideline Reference Number</b>	<b>Guideline Study Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
810.2300	Evaluation of Sanitizing Bactericidal Efficacy Against S. aureus and K. pneumoniae for Non-Food and Food Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573318	Industrie De Nora	OWN	
810.2300	Evaluation of the Available Chlorine as Germicidal Equivalent Concentration Against S. aureus on Giselle and Soleva Solutions	49573319	Industrie De Nora	OWN	
810.2300	Evaluation of Sanitizing Bactericidal Efficacy Against S. aureus and K. pneumoniae for Non-Food and Food Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573320	Industrie De Nora	OWN	
810.2300	Evaluation of Sanitizing Bactericidal Efficacy for Non-Food and Food Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573321	Industrie De Nora	OWN	
810.2300	Evaluation of the Available Chlorine as Germicidal Equivalent Concentration Against S. aureus on Giselle and Soleva Solutions	49573322	Industrie De Nora	OWN	
810.2300	Evaluation of Sanitizing Bactericidal Efficacy Against S. aureus and K. pneumoniae for Non-Food and Food Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573323	Industrie De Nora	OWN	
810.2300	Evaluation of the Available Chlorine as Germicidal Equivalent Concentration Against S. aureus on Giselle and Soleva Solutions: Final Report	49573324	Industrie De Nora	OWN	

**SERIES 870: HEALTH EFFECTS TEST GUIDELINES**

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**Ingredients:** Sodium Chloride (99.86%)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Notes
870.1100	Acute Oral toxicity-rat	N/A		Waived	Footnote 2
870.1200	Acute dermal toxicity	N/A		Waived	Footnote 2
870.1300	Acute inhalation toxicity – rat	N/A		Waived	Footnote 2
870.2400	Acute eye irritation – rabbit	N/A		PL	Footnote 2,3
870.2500	Acute dermal irritation	N/A		PL	Footnote 2,3
870.2600	Dermal sensitization	N/A		Waived	Footnote 2
870.3100	90-day oral toxicity-rodent	N/A		Waived	Footnote 2
<b>SERIES 835: FATE, TRANSPORT &amp; TRANSFORMATION TEST GUIDELINES</b>					
	Environmental Fate & Effects	N/A		PL	Footnote 4
<b>OTHER</b>					
N/A	Life Cycle Testing for Soleva(TM) Solutions Produced by the Giselle(R) Equipment	49573306	Industrie De Nora	OWN	
N/A	Validation of Production Efficiency and Reproducibility by the Giselle(R) Equipment	49573307	Industrie De Nora	OWN	
N/A	Efficacy Data Summary and Certification of Water Hardness	49573308	Industrie De Nora	OWN	
N/A	Validation of Production Efficiency and Reproducibility by the ClorTec-SD(R) Equipment	51369901	Industrie De Nora	OWN	

**Footnotes:**

1. Reregistration Eligibility Decision (RED) Document, Inorganic Halides, List D, Case 4051 (Sept. 1993) and the Inorganic Halides Final Work Plan (FWP), Registration Review (Sept, 2009) lists the public literature that addresses these data requirements.

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2. RED at 7 "Because of its abundance in the environment and low toxicity to humans, no toxicity data were required for sodium chloride." Similarly, FWP at 8, "Therefore, the Agency does not believe that further toxicity data or exposure assessments for sodium chloride will be needed in association with this registration review."
3. Sax, N. I., and Lewis, R. J. Sr., (1989). Dangerous Properties of Industrial Materials, 7th Ed.
4. Reregistration Eligibility Decision Document, Inorganic Halides, List D, Case 4051 (Sept. 1993) at 9. "Sodium chloride occurs abundantly in the natural environment. It is a component of seawater, and in the diets of most terrestrial animal. Although it can be toxic in large amounts, especially to freshwater aquatic organisms, the use of sodium chloride as registered will not result in any significant exposure to non-target organisms in the environment. For the currently registered uses, sodium chloride is present in low amounts, or is used in indoor situations only. Since sodium chloride readily dissolves, no environmental fate assessment was necessary. Therefore, the Agency does not require any environmental fate of ecological effect, data for sodium chloride." See also FWP at 13 for similar conclusions.

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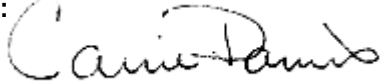
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830.1550	Product Identity and Composition	49573301	Industrie De Nora	OWN	
830.1600	Description of Materials Used to Produce the Produce	49573301	Industrie De Nora	OWN	
830.1620	Description of Production Process	49573301	Industrie De Nora	OWN	
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830.1700	Preliminary analysis	49573302 49573303 49573304 49573305	Industrie De Nora	OWN	
830.1750	Certified Limits	49573301	Industrie De Nora	OWN	
830.1800	Enforcement Analytical Method	49573301 49693201	Industrie De Nora	OWN	
<b>SERIES 830: PRODUCT PROPERTIES TEST GUIDELINES (GROUP B)</b>					
830.6302	Color	N/A		PL	Footnote 1
830.6303	Physical State	N/A		PL	Footnote 1
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830.6314	Oxidation/reduction chemical incompatibility	N/A		PL	Footnote 1
830.6315	Flammability	N/A		PL	Footnote 1
830.6316	Explosibility	N/A		PL	Footnote 1

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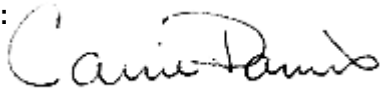
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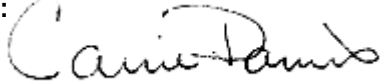
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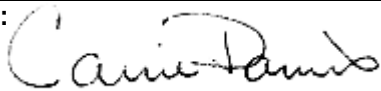
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810.2300	Evaluation of the Available Chlorine as Germicidal Equivalent Concentration Against S. aureus on Giselle and Soleva Solutions	49573322	Industrie De Nora	OWN	
810.2300	Evaluation of Sanitizing Bactericidal Efficacy Against S. aureus and K. pneumoniae for Non-Food and Food Hard Non-Porous Surfaces on Giselle and Soleva Solutions	49573323	Industrie De Nora	OWN	
810.2300	Evaluation of the Available Chlorine as Germicidal Equivalent Concentration Against S. aureus on Giselle and Soleva Solutions: Final Report	49573324	Industrie De Nora	OWN	

**SERIES 870: HEALTH EFFECTS TEST GUIDELINES**

<b>Signature:</b> 	<b>Name and Title:</b> Carrie Daniels, Authorized Representative for Industrie De Nora S.p.A.	<b>Date:</b> August 6, 2021
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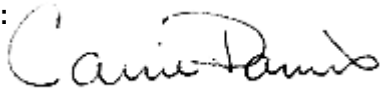
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**Data Matrix**

<b>Date:</b> August 6, 2021	<b>EPA Reg. No./File Symbol:</b> 91386-1	<b>Page 5 of 6</b>
<b>Applicant's/Registrant's Name and Address:</b> Industrie De Nora S.p.A., Via Bistolfi, 35, 20134 Milan, Italy	<b>Product Name:</b> Salt Cartridge for Giselle®	

**Ingredients:** Sodium Chloride (99.86%)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Notes
870.1100	Acute Oral toxicity-rat	N/A		Waived	Footnote 2
870.1200	Acute dermal toxicity	N/A		Waived	Footnote 2
870.1300	Acute inhalation toxicity – rat	N/A		Waived	Footnote 2
870.2400	Acute eye irritation – rabbit	N/A		PL	Footnote 2,3
870.2500	Acute dermal irritation	N/A		PL	Footnote 2,3
870.2600	Dermal sensitization	N/A		Waived	Footnote 2
870.3100	90-day oral toxicity-rodent	N/A		Waived	Footnote 2
<b>SERIES 835: FATE, TRANSPORT &amp; TRANSFORMATION TEST GUIDELINES</b>					
	Environmental Fate & Effects	N/A		PL	Footnote 4
<b>OTHER</b>					
N/A	Life Cycle Testing for Soleva(TM) Solutions Produced by the Giselle(R) Equipment	49573306	Industrie De Nora	OWN	
N/A	Validation of Production Efficiency and Reproducibility by the Giselle(R) Equipment	49573307	Industrie De Nora	OWN	
N/A	Efficacy Data Summary and Certification of Water Hardness	49573308	Industrie De Nora	OWN	
N/A	ClorTec-SD Ready-to-Use Disinfectant: Characterization of Active Ingredient in a Sample of Test Substance	51369901	Industrie De Nora	OWN	
N/A	ClorTec-SD Ready-to-Use Disinfectant: Characterization of Active Ingredient in a Sample of Test Substance	51647201	Industrie De Nora	OWN	
N/A	Validation of Production Efficiency and Reproducibility by the ClorTec-SD Equipment	51647202	Industrie De Nora	OWN	

<b>Signature:</b> 	<b>Name and Title:</b> Carrie Daniels, Authorized Representative for Industrie De Nora S.p.A.	<b>Date:</b> August 6, 2021
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**Data Matrix**

<b>Date:</b> August 6, 2021		<b>EPA Reg. No./File Symbol:</b> 91386-1		<b>Page 6 of 6</b>	
<b>Applicant's/Registrant's Name and Address:</b> Industrie De Nora S.p.A., Via Bistolfi, 35, 20134 Milan, Italy		<b>Product Name:</b> Salt Cartridge for Giselle®			
<b>Ingredients:</b> Sodium Chloride (99.86%)					
<b>Guideline Reference Number</b>	<b>Guideline Study Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>

**Footnotes:**

1. Reregistration Eligibility Decision (RED) Document, Inorganic Halides, List D, Case 4051 (Sept. 1993) and the Inorganic Halides Final Work Plan (FWP), Registration Review (Sept, 2009) lists the public literature that addresses these data requirements.
2. RED at 7 "Because of its abundance in the environment and low toxicity to humans, no toxicity data were required for sodium chloride." Similarly, FWP at 8, "Therefore, the Agency does not believe that further toxicity data or exposure assessments for sodium chloride will be needed in association with this registration review."
3. Sax, N. I., and Lewis, R. J. Sr., (1989). Dangerous Properties of Industrial Materials, 7th Ed.
4. Reregistration Eligibility Decision Document, Inorganic Halides, List D, Case 4051 (Sept. 1993) at 9. "Sodium chloride occurs abundantly in the natural environment. It is a component of seawater, and in the diets of most terrestrial animal. Although it can be toxic in large amounts, especially to freshwater aquatic organisms, the use of sodium chloride as registered will not result in any significant exposure to non-target organisms in the environment. For the currently registered uses, sodium chloride is present in low amounts, or is used in indoor situations only. Since sodium chloride readily dissolves, no environmental fate assessment was necessary. Therefore, the Agency does not require any environmental fate of ecological effect, data for sodium chloride." See also FWP at 13 for similar conclusions.

<b>Signature:</b> 	<b>Name and Title:</b> Carrie Daniels, Authorized Representative for Industrie De Nora S.p.A.	<b>Date:</b> August 6, 2021
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## VI. Data Matrix



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**DATA MATRIX**

Date:	EPA Reg No./ File Symbol	Page 1 of 4
Applicant's/Registrant's Name and Address: Industrie De Nora S.p.A. c/o De Nora Tech 7590 Discovery Lane Concord, OH 44077		Product: Salt Cartridge for Giselle®
Ingredient: Sodium Chloride		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	End Note
<b>Product Identity and Composition (Group A)</b>					
830.1550	Product identity and composition		Industrie De Nora	Own	
830.1600	Description of materials used to produce the product		Industrie De Nora	Own	
830.1620	Description of production process		Industrie De Nora	Own	
830.1650	Description of formulation process		Industrie De Nora	Own	
830.1670	Discussion of formation of impurities		Industrie De Nora	Own	
830.1700	Preliminary analysis		Industrie De Nora	Own	
830.1750	Certified limits		Industrie De Nora	Own	
830.1800	Enforcement analytical method	Cite All		PL	
830.1900	Submittal of samples			As required	
<b>Physical/Chemical Properties (Group B)</b>					
830.6302	Color	Cite All		PL	1
830.6303	Physical state	Cite All		PL	1
830.6304	Odor	Cite All		PL	1
830.6313	Stability to normal and elevated temperatures, metals, and metal ions	Cite All		PL	1

Signature: 	Name and Title: Giorgio Padula, BU General Manager	Date: February 13, 2015
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DATA MATRIX

Date:	EPA Reg No./ File Symbol	Page 2 of 4
Applicant's/Registrant's Name and Address: Industrie De Nora S.p.A. c/o De Nora Tech 7590 Discovery Lane Concord, OH 44077		Product: Salt Cartridge for Giselle®
Ingredient: Sodium Chloride		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	End Note
830.6314	Oxidation/reduction chemical incompatibility	Cite All		PL	1
830.6315	Flammability	Cite All		PL	1
830.6316	Explosibility	Cite All		PL	1
830.6317	Storage stability	Cite All		PL	1
830.6319	Miscibility	Cite All		PL	1
830.6320	Corrosion characteristics	Cite All		PL	1
830.6321	Dielectric breakdown voltage	Cite All		PL	1
830.7000	pH	Cite All		PL	1
830.7050	UV/visible absorption	Cite All		PL	1
830.7100	Viscosity	Cite All		PL	1
830.7200	Melting point/melting range	Cite All		PL	1
830.7220	Boiling point/boiling range	Cite All		PL	1
830.7300	Density/relative density/bulk density	Cite All		PL	1
830.7370	Dissociation constants in water	Cite All		PL	1
830.7520	Particle size, fiber length, and diameter distribution	Cite All		PL	1
830.7550 830.7560 830.7570	Partition coefficient (n-octanol/water)	Cite All		PL	1

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Date:	EPA Reg No./ File Symbol	Page 3 of 4
Applicant's/Registrant's Name and Address: Industrie De Nora S.p.A. c/o De Nora Tech 7590 Discovery Lane Concord, OH 44077		Product: Salt Cartridge for Giselle®
Ingredient: Sodium Chloride		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	End Note
830.7840 830.7860	Water solubility	Cite All		PL	1
830.7950	Vapor pressure	Cite All		PL	1
<b>Product Performance</b>					
810.2200	Disinfectants for use on hard surfaces – efficacy data		Industrie De Nora	OWN	
810.2300	Sanitizer for use on hard surfaces – efficacy data		Industrie De Nora	OWN	
<b>Toxicity - Acute</b>					
870.1100	Acute oral toxicity - rat	Cite All		PL	2
870.1200	Acute dermal toxicity	Cite All		Waived	2
870.1300	Acute inhalation toxicity - rat	Cite All		Waived	2
870.2400	Acute eye irritation - rabbit	Cite All		PL	2, 3
870.2500	Acute dermal irritation	Cite All		PL	2, 3
870.2600	Dermal sensitization	Cite All		Waived	2
<b>Toxicity - Subchronic</b>					
870.3100	90-day oral toxicity - rodent	Cite All		Waived	2
<b>Environmental Fate &amp; Effects</b>					
		Cite All		PL	4

Signature: 	Name and Title: Giorgio Padula, BU General Manager	Date: February 13, 2015
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Date:	EPA Reg No./ File Symbol	Page 4 of 4
Applicant's/Registrant's Name and Address: Industrie De Nora S.p.A. c/o De Nora Tech 7590 Discovery Lane Concord, OH 44077		Product: Salt Cartridge for Giselle®
Ingredient: Sodium Chloride		

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